

B3 C1 FIG. 10 is a graphic representation of the effects of 12 daily injections of LEP(116-130) synthetic peptide on body weight gain and food consumption in female *db/db* mice.

FIGS. 11A - 11B are graphic representations of the effects of 7 daily injections of various synthetic leptin peptide on body weight gain and food consumption in genetically obese female C57BLKS/J-m *db/db* mice.

Replace the paragraph on page 12, lines 19-21, with the following paragraph:

BA FIGS. 13A - 13B are graphic representations of the effects of LEP(116-130) peptide on thermogenesis in genetically obese female C57BLKS/J-m *db/db* mice after 4 days and 7 days of peptide treatment.

On page 48, delete lines 7 through 16 and replace them with the following paragraph:

B5 Synthetic leptin-related peptide OB-3 (¹¹⁶Ser-Cys-Ser-Leu-Pro-Gln-Thr¹²²)(SEQ ID NO:2) was synthesized as a peptide amide by the solid phase method on a Rainin Model PS 3 automated synthesizer. Fluorenylmethoxycarbonyl ("Fmoc")-protected L-amino acids were assembled on Rink (4, 2', 4-dimethyloxyphenyl-fluorenylmethoxycarbonyl-aminoethyl) phenoxy resin. The completed peptide was cleaved from the resin with trifluoroacetic acid ("TFA") using sterile deionized water, ethanedithiol, anisole, and thioanisole as scavengers. The cleaved peptide was extracted with anhydrous ether, dried by lyophilization, and purified on a Rainin Dynamax preparative HPLC column (21.4mm x 25cm; C18; 300Å pore diameter) using a linear acetonitrile gradient (0-100%) containing 0.05% TFA. Fidelity of synthesis was confirmed by mass spectral analysis.

Pursuant to 37 CFR 1.121(b)(1)(iii), a marked up version of the specification showing the changes made appears as Appendix A of this Amendment.

In the Claims:

Please cancel claims 45, 48 and 56 without prejudice or disclaimer.

Please amend claims 4, 6, 12, 18, 31-33 and 61 as follows: